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Attachment 5

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3-BEDROOM UNIT
HEAT GAIN CALCULATIONS

WINDOW LOAD

1. Sun exposed (interior shades only) west side 30 sq. ft. x 60 = 1,800
2. Sun exposed (interior shades) south side None sq.ft. x 40 = None
3. Sun exposed (awnings) None sq. ft. x 35 = None
4. East exposure, north exposure, or shaded 46 sq. ft. x 15 = 690

WALL LOAD

1. Sun exposed south and west walls 544 sq. ft. x 8 = 4,352
2. East or north exposure 232 sq. ft. x 5= 1,160
3. Interior walls 1,628 sq. ft. x 10 = 6,512
4. Interior glass partition none sq. ft. x 10 = none

FLOOR LOAD

1,687 sq. ft. x 3 = 5,061

CEILING LOAD

Occupied above none sq. ft. x 3 = none

Insulated roof 1,687 sq. ft. x 8 = 13,496

Uninsulated roof none sq. ft. x 20 = none

VENTILATION LOAD

8,918 cu. ft. x .4 = 3,567

OCCUPANCY LOAD

Number of people 4 x 400 = 1,600

MISCELLANEOUS LOAD

Electrical Watts: 1800 x 3.4 = 6,120
Other x 3.4 = none

TOTAL BTU PER HOUR 44,358

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4-BEDROOM UNIT
HEAT GAIN CALCULATIONS

WINDOW LOAD

1. Sun exposed (interior shades only)
   west side 42 sq. ft. x 60 = 2,520

2. Sun exposed (interior shades)
   south side none sq.ft. x 40 = none

3. Sun exposed (awnings) none sq. ft. x 35 = none

4. East exposure, north exposure, or
   shaded 56 sq. ft. x 15 = 555

WALL LOAD

1. Sun exposed south and west walls
   442 sq. ft. x 8 = 3,536

2. East or north exposure 471 sq. ft. x 5= 2,355

3. Interior walls 1,525 sq. ft. x 10 = 6,100

4. Interior glass partition None sq. ft. x 10 = None

FLOOR LOAD

1,803 sq. ft. x 3 = 5,409

CEILING LOAD

Occupied above None sq. ft. x 3 = None

Insulated roof 1,803 sq. ft. x 8 = 14,424

Uninsulated roof None sq. ft. x 20 = None

VENTILATION LOAD

9,207 cu. ft. x .4 = 3,683

OCCUPANCY LOAD

Number of people 4 x 400 = 1,600

MISCELLANEOUS LOAD

Electrical Watts: 1800 x 3.4 = 6,120
Other x 3.4 = None

TOTAL BTU PER HOUR 46,302

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DUPLEX UNIT
HEAT GAIN CALCULATION

WINDOW LOAD

1. Sun exposed (interior shades only)
   west side 32 sq. ft. x 60 = 1920

2. Sun exposed (interior shades)
   south side 3 sq.ft. x 40 = 120

3. Sun exposed (awnings) none sq. ft. x 35 = none

4. East exposure, north exposure, or
   shaded 26 sq. ft. x 15 = 390

WALL LOAD

1. Sun exposed south and west walls
   579 sq. ft. x 8 = 4,632

2. East or north exposure 370 sq. ft. x 5= 1,850

3. Interior walls 1,787 sq. ft. x 10 = 7,148

4. Interior glass partition none sq. ft. x 10 = none

FLOOR LOAD

1,508 sq. ft. x 3 = 4,524

CEILING LOAD

Occupied above none sq. ft. x 3 = none

Insulated roof 1,508 sq. ft. x 8 = 12,064

Uninsulated roof none sq. ft. x 20 = none

VENTILATION LOAD

8,705 cu. ft. x .4 = 3,482

OCCUPANCY LOAD

Number of people 4 x 400 = 1,600

MISCELLANEOUS LOAD

Electrical Watts: 1800 x 3.4 = 6,120
Other x 3.4 = none

TOTAL BTU PER HOUR 43,850

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